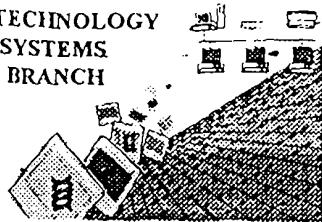


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/900,063B
Source: 1600
Date Processed by STIC: 10/30/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/2003):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/2003



RAW SEQUENCE LISTING

DATE: 10/30/2003

PATENT APPLICATION: US/09/900,063B

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt
 Output Set: N:\CRF4\10302003\I900063B.raw

3 <110> APPLICANT: Rothschild, Max F.
 4 Vincent, Amy L.
 5 Tuggle, Christopher K.
 7 <120> TITLE OF INVENTION: PROLACTIN RECEPTOR GENE AS A GENETIC MARKER FOR INCREASED LITTER
 8 SIZE IN ANIMALS
 10 <130> FILE REFERENCE: P02285UD5
 12 <140> CURRENT APPLICATION NUMBER: US 09/900,063B
 13 <141> CURRENT FILING DATE: 2001-07-06
 15 <150> PRIOR APPLICATION NUMBER: US 08/812,208
 16 <151> PRIOR FILING DATE: 1997-03-06
 18 <150> PRIOR APPLICATION NUMBER: US 08/742,805
 19 <151> PRIOR FILING DATE: 1996-11-01
 21 <150> PRIOR APPLICATION NUMBER: US 60/022,180
 22 <151> PRIOR FILING DATE: 1996-07-19
 24 <160> NUMBER OF SEQ ID NOS: 18
 26 <170> SOFTWARE: PatentIn version 3.2
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 20
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Porcine
 33 <400> SEQUENCE: 1
 34 cccaaaacag caggagaacg
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 20
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Porcine
 42 <400> SEQUENCE: 2
 43 ggcaagtgg taaaaatgga
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 492
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Porcine
 52 <220> FEATURE:
 53 <221> NAME/KEY: allele
 54 <222> LOCATION: (240)..(240)
 55 <223> OTHER INFORMATION: r = a or g
 57 <400> SEQUENCE: 3
 58 aagtcaacaa agatggaga ctggcggtgc tcccaaaaca gcaggagaac ggcgaccggc 60
 60 cggagaaggc tggcgccccctt gaaaccagca aggaatacgc ccaggtgtcc cgggtgtatgg 120
 62 ataaccacat cctggtgtta gtgcaggatc cgcgagctcg aaacgtggct ccgtttgaag 180
 64 aaccaaccaa ggagaccccg ccatcccggc cgcagaatcc agctgcgaaa gacctggcg 240
 66 gcttcaccac ggccccggc cactgcagac acccgctggg tgggctggat tacctcgatc 300
 68 ccgcaggctt tatgcacitcc tttcagtgag agcttggttc atggatgtat gggttacaag 360

Corr No. 1000
Corrected Drawing Needles
pp 1-2

"g" is at location 240

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

70 gtggggttt tttcaggtcg cactacgtga aatgcactct accagagaaa gctcgaaaaat 420
 72 ggggttagaa tgacactacc cagactcaca gttcactcct cttcatgctc catttcaac 480
 74 cacttgcc tc tt 492
 77 <210> SEQ ID NO: 4
 78 <211> LENGTH: 20
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Unknown
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 84 were used to design the degenerate primer
 87 <220> FEATURE:
 88 <221> NAME/KEY: misc_difference
 89 <222> LOCATION: (13)..(13) C is at location 13
 90 <223> OTHER INFORMATION: y = c or t
 92 <400> SEQUENCE: 4
 93 tcacaaggc aacaaagatg 20
 96 <210> SEQ ID NO: 5
 97 <211> LENGTH: 20
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Unknown
 101 <220> FEATURE:
 102 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 103 were used to design the degenerate primer
 106 <220> FEATURE:
 107 <221> NAME/KEY: misc_feature no r's are present in the sequence
 108 <223> OTHER INFORMATION: r = g or a
 110 <220> FEATURE:
 111 <221> NAME/KEY: misc_difference
 112 <222> LOCATION: (3)..(3) g is at location 3
 113 <223> OTHER INFORMATION: r = g or a
 115 <220> FEATURE:
 116 <221> NAME/KEY: misc_difference g is at location 9
 117 <222> LOCATION: (9)..(9)
 118 <223> OTHER INFORMATION: r = g or a
 120 <220> FEATURE:
 121 <221> NAME/KEY: misc_difference g is at location 16
 122 <222> LOCATION: (16)..(16)
 123 <223> OTHER INFORMATION: r = g or a
 125 <400> SEQUENCE: 5
 126 togagaaaga ggcaatgtgt 20
 129 <210> SEQ ID NO: 6
 130 <211> LENGTH: 20
 131 <212> TYPE: DNA
 132 <213> ORGANISM: Porcine
 134 <400> SEQUENCE: 6
 135 cggccgcaga atcctgctgc 20
 138 <210> SEQ ID NO: 7
 139 <211> LENGTH: 24
 140 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt
 Output Set: N:\CRF4\10302003\I900063B.raw

```

141 <213> ORGANISM: Porcine
143 <400> SEQUENCE: 7
144 accccaccc tt gtaacccatc atcc
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 18
149 <212> TYPE: DNA
150 <213> ORGANISM: Porcine
152 <400> SEQUENCE: 8
153 caagggtggaa acatgaqt
156 <210> SEQ ID NO: 9
157 <211> LENGTH: 20
158 <212> TYPE: DNA
159 <213> ORGANISM: Porcine
161 <400> SEQUENCE: 9
162 aatcctttta tttttggccc
165 <210> SEQ ID NO: 10
166 <211> LENGTH: 20
167 <212> TYPE: DNA
168 <213> ORGANISM: Porcine
170 <400> SEQUENCE: 10
171 gattattgtc tgggcagtgg
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 20
176 <212> TYPE: DNA
177 <213> ORGANISM: Porcine
179 <400> SEQUENCE: 11
180 aatcctttta tttttggccc
183 <210> SEQ ID NO: 12
184 <211> LENGTH: 20
185 <212> TYPE: DNA
186 <213> ORGANISM: Porcine
188 <400> SEQUENCE: 12
189 gattattgtc tgggcagtgg
192 <210> SEQ ID NO: 13
193 <211> LENGTH: 23
194 <212> TYPE: DNA
195 <213> ORGANISM: Porcine
197 <400> SEQUENCE: 13
198 ctatttcaca aaaactgcgc tac
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 566
203 <212> TYPE: DNA
204 <213> ORGANISM: Porcine
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (36)..(36)
210 <223> OTHER INFORMATION: n = unknown nucleotide position 36
212 <400> SEQUENCE: 14
> 213 gattattgtc tgggcagtgg tcttctctgt ctatcnaccc ccatccccatt catggctctc 60

```

RAW SEQUENCE LISTING DATE: 10/30/2003
 PATENT APPLICATION: US/09/900,063B TIME: 10:05:43

Input Set : A:\Rothschild_P02285USS5.ST25.txt
 Output Set: N:\CRF4\10302003\I900063B.raw

215	agggtataat ggccaaaaaa aagacaagac aaaaatgatg gaaacctaca gataattyaa	120
217	gcacctcatt ttgccattag ctgcattagc cataaaaaaa aaaaaaaaaa cctttctca	180
219	gtgcttagaaa aaaacagaat agactcattt gaaactgatc ttctctctac caaaggagi	240
221	agcgagttg taaaatagta aacgtctgac aagaacagca aataatccca ctagtaattt	300
223	cagaatccgc ctccctcaatt agccagaatt cactgtgatg ctggcctcta taattattat	360
225	ttgtctcac cactgattag tttcacatca tgaaaatgc atgtcattta gtttcacrtta	420
227	gcctcagaac caaccctaat tcctacctgc catatccctg tagcagctat tcgaagatca	480
229	caagtgggaa acatgtgya tttatctttt ctcttacatt atttagagec atggtggcct	540
231	gcatccggc caaaaataaa aggatt	566
234	<210> SEQ ID NO: 15	
235	<211> LENGTH: 518	
236	<212> TYPE: DNA	
237	<213> ORGANISM: Porcine	
240	<220> FEATURE:	
241	<221> NAME/KEY: misc_feature	
242	<222> LOCATION: (49)..(49)	
243	<223> OTHER INFORMATION: n = unknown in nucleotide position 49	
245	<220> FEATURE:	
246	<221> NAME/KEY: misc_feature	
247	<222> LOCATION: (67)..(67)	
248	<223> OTHER INFORMATION: n = unknown in nucleotide position 67	
250	<400> SEQUENCE: 15	
> 251	gtacacacac acacacacac acacacaccac gttaagctnt ctttctgaat	60
253	catgcnacc cgaggccac ccatacagga gtgtggtgg ggggccttg gcacttctga	120
255	gcctgcatac cctacaccca ctgcctcaa gatgtcatcc ctgcctctggc ccccacccat	180
257	ctgcttctgt caccagcaga atggccagt cattgagcgg accttcataat tgactccagt	240
259	ggcttctggc ttttcttagg acagtcacct ccggaaaaac ctgagatctt caaatgtcgt	300
261	tctccggaaa aggaaacatt cgcctgtgg tggaaagccgg gggggatgg aggacttcct	360
263	accaactaga cgctqactta ccacaaggaa gggtaagcat tcgcgtgtct cccaaacaaac	420
265	cacacgagtg ttctctctct gtggccaga ggaacactgc ttctgggtta gaactgcctc	480
267	gcttggagt tcccgtcatg gctcaagtggt aacgaatc	518
270	<210> SEQ ID NO: 16	
271	<211> LENGTH: 133	
272	<212> TYPE: DNA	
273	<213> ORGANISM: Homo sapiens	
275	<400> SEQUENCE: 16	
276	gacagttacc tcctggaaaa cctgagatct ttaaatgtcg ttctccaat aaggaaacat	60
278	tcacctgctg gtggaggcct gggacagatg gaggacttcc taccattat tcactgactt	120
280	accacaggaa agg	133
283	<210> SEQ ID NO: 17	
284	<211> LENGTH: 53	
285	<212> TYPE: PRT	
286	<213> ORGANISM: Homo sapiens	
288	<400> SEQUENCE: 17	
290	Gly Gln Leu Pro Pro Gly Lys Pro Glu Ile Phe Lys Ser Pro Phe Cys	
291	1 5 10 15	
294	Arg Ser Pro Asn Lys Glu Thr Phe Thr Glu Ala Arg Pro Gly Thr Asp	
295	20 25 30	
298	Gly Gly Leu Pro Thr Asn Lys Pro Ala Asn Tyr Ser Leu Thr Tyr His	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:43

Input Set : A:\Rothschild_P02285US5.ST25.txt

Output Set: N:\CRF4\10302003\I900063B.raw

299	35	40	45
302	Arg Glu Gly Thr Lys		
303	50		
306	<210> SEQ ID NO: 18		
307	<211> LENGTH: 132		
308	<212> TYPE: DNA		
309	<213> ORGANISM: Porcine		
311	<400> SEQUENCE: 18		
312	acagtcacct ccggaaaaac ctgagatctt caaatgtcgt tctccgaaa aggaaacatt	60	
314	cgcctgctgg tggaaaggccgg gggcggtatgg aggacttcct accaactaga cgctgactta	120	
316	ccacaaggaa gg	132	

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003
TIME: 10:05:44

Input Set : A:\Rothschild_P02285US5.ST25.txt
Output Set: N:\CRF4\10302003\I900063B.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

#:14; N Pos. 36
#:15; N Pos. 49,67

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,063B

DATE: 10/30/2003

TIME: 10:05:44

Input Set : A:\Rothschild_P02285USS5.ST25.txt
Output Set: N:\CRF4\10302003\I900063B.raw

13 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

41 Repeated in SeqNo=15